Patrick De Leenheer

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Virus Dynamics: A Global Analysis. SIAM Journal on Applied Mathematics, 2003, 63, 1313-1327.	0.8	361
2	A Petri net approach to the study of persistence in chemical reaction networks. Mathematical Biosciences, 2007, 210, 598-618.	0.9	154
3	Feedback control for chemostat models. Journal of Mathematical Biology, 2003, 46, 48-70.	0.8	121
4	The abundant marine bacterium Pelagibacter simultaneously catabolizes dimethylsulfoniopropionate to the gases dimethyl sulfide and methanethiol. Nature Microbiology, 2016, 1, 16065.	5.9	110
5	Monotone Chemical Reaction Networks. Journal of Mathematical Chemistry, 2007, 41, 295-314.	0.7	97
6	Quorum Activation at a Distance: Spatiotemporal Patterns of Gene Regulation from Diffusion of an Autoinducer Signal. Journal of the American Chemical Society, 2012, 134, 5618-5626.	6.6	68
7	Graph-theoretic characterizations of monotonicity of chemical networks in reaction coordinates. Journal of Mathematical Biology, 2010, 61, 581-616.	0.8	62
8	Persistence Results for Chemical Reaction Networks with Time-Dependent Kinetics and No Global Conservation Laws. SIAM Journal on Applied Mathematics, 2011, 71, 128-146.	0.8	45
9	Global analysis of within host virus models with cell-to-cell viral transmission. Discrete and Continuous Dynamical Systems - Series B, 2014, 19, 3341-3357.	0.5	43
10	Failure of antibiotic treatment in microbial populations. Journal of Mathematical Biology, 2009, 59, 563-579.	0.8	41
11	Chemical networks with inflows and outflows: A positive linear differential inclusions approach. Biotechnology Progress, 2009, 25, 632-642.	1.3	36
12	Multistrain virus dynamics with mutations: a global analysis. Mathematical Medicine and Biology, 2008, 25, 285-322.	0.8	33
13	Parasite sources and sinks in a patched Ross–Macdonald malaria model with human and mosquito movement: Implications for control. Mathematical Biosciences, 2016, 279, 90-101.	0.9	33
14	On Predator-Prey Systems and Small-Gain Theorems. Mathematical Biosciences and Engineering, 2005, 2, 25-42.	1.0	32
15	Traveling waves in response to a diffusing quorum sensing signal in spatially-extended bacterial colonies. Journal of Theoretical Biology, 2014, 363, 53-61.	0.8	31
16	Crowding effects promote coexistence in the chemostat. Journal of Mathematical Analysis and Applications, 2006, 319, 48-60.	0.5	26
17	A Petri Net Approach to Persistence Analysis in Chemical Reaction Networks. Lecture Notes in Control and Information Sciences, 2007, , 181-216.	0.6	23
18	Within-Host Virus Models with Periodic Antiviral Therapy. Bulletin of Mathematical Biology, 2009, 71, 189-210.	0.9	21

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19	On the structural monotonicity of chemical reaction networks. , 2006, , .		20
20	Immune response to a malaria infection: properties of a mathematical model. Journal of Biological Dynamics, 2008, 2, 102-120.	0.8	19
21	Global stability in a chemostat with multiple nutrients. Journal of Mathematical Biology, 2006, 52, 419-438.	0.8	16
22	Tragedy of the commons in the chemostat. PLoS ONE, 2017, 12, e0186119.	1.1	16
23	The puzzle of partial migration: Adaptive dynamics and evolutionary game theory perspectives. Journal of Theoretical Biology, 2017, 412, 172-185.	0.8	14
24	Global analysis of a predator–prey model with variable predator search rate. Journal of Mathematical Biology, 2020, 81, 159-183.	0.8	12
25	The effectiveness of marine protected areas for predator and prey with varying mobility. Theoretical Population Biology, 2016, 110, 63-77.	0.5	11
26	Division of labor in bacterial populations. Mathematical Biosciences, 2019, 316, 108257.	0.9	11
27	Senescence and antibiotic resistance in an age-structured population model. Journal of Mathematical Biology, 2010, 61, 475-499.	0.8	8
28	Stabilizing a Periodic Solution in the Chemostat: A Case Study in Tracking. , 2006, , .		7
29	The chemostat with lateral gene transfer. Journal of Biological Dynamics, 2010, 4, 607-620.	0.8	7
30	Feedback-Mediated Oscillatory Coexistence in the Chemostat. Lecture Notes in Control and Information Sciences, 2006, , 97-104.	0.6	6
31	Strong cooperation or tragedy of the commons in the chemostat. Mathematical Biosciences and Engineering, 2019, 16, 139-149.	1.0	4
32	Global stability for monotone tridiagonal systems with negative feedback. , 2008, , .		3
33	Optimal Placement of Marine Protected Areas: a Trade-off Between Fisheries Goals and Conservation Efforts. IEEE Transactions on Automatic Control, 2014, 59, 1583-1587.	3.6	3
34	Population models with partial migration. Journal of Difference Equations and Applications, 2016, 22, 316-329.	0.7	3
35	Dispersal kernels may be scalable: Implications from a plant pathogen. Journal of Biogeography, 2019, 46, 2042-2055.	1.4	3
36	On persistence of chemical reaction networks with time-dependent kinetics and no global		1

conservation laws. , 2009, , .

#	Article	IF	CITATIONS
37	The ideal free distribution and the evolution of partial migration. Journal of Difference Equations and Applications, 2021, 27, 462-477.	0.7	1
38	Output Diffusion of the Monopolist Over Time and Space. Journal of Optimization Theory and Applications, 2016, 169, 290-298.	0.8	0